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DEC 2001

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Coelho, P., et al.
FILED: June 4, 1999
FOR: Autologous Thrombin

To: Commissioner of Patents and Trademarks
Washington, DC 20231

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
BEFORE MAILING OF FIRST OFFICE ACTION UNDER 37 CFR 1.97(b)**

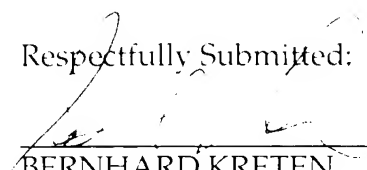
The references listed on the appended PTO-1449 form reflect the state of the art of which applicant is currently aware. The references are included to fulfill the applicant's duty to disclose prior art. It is stipulated, however, that none of these references teach singly, nor render obvious when combined, the nexus of this invention as disclosed and as particularly claimed.

**IDENTIFICATION OF TIME OF FILING THE
ACCOMPANYING INFORMATION DISCLOSURE STATEMENT**

This information disclosure statement submitted herewith is being filed before the mailing date of a first Office Action on the merits.

Dated: December 4, 2001

Respectfully Submitted:


BERNHARD KRETEN
Applicant's Attorney
Telephone (916) 921-6181
Registration No.: 27,037

10/06/17

PTO SB 08A 6-95

Approved for use through 07/31/96 OMB 0651-0031

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1449A PTO Rev. 10-96		U.S. Department of Commerce Patent and Trademark Office		Complete if Known	
LIST OF PRIOR ART CITED BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	
				Filing Date	
				First Named Inventor Coelho, et al.	
				Group Art Unit	
				Examiner Name	
Sheet	1	of	8	Attorney Docket Number 31120-pa	

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)			
	1	713,017			Pumphrey	11-04-1902
	2	1,614,532			Mobley	01-18-1927
	3	2,533,004			Ferry, et al.	12-05-1950
	4	2,747,936			Wahlin	05-29-1956
	5	3,179,107			Clark	04-20-1965
	6	3,223,083			Cobey	12-14-1965
	7	3,236,457			Kennedy, et al.	02-22-1966
	8	3,269,389			Meurer, et al.	08-30-1966
	9	3,416,737			Venus, Jr.	12-17-1968
	10	3,467,096			Horn	09-16-1969
	11	3,828,980			Creighton, et al.	08-13-1974
	12	3,942,725			Green	03-09-1976
	13	3,945,574			Polnauer, deceased, et al.	03-23-1976
	14	4,040,420			Speer	08-09-1977
	15	4,067,333			Reinhardt, et al.	01-10-1978
	16	4,109,653			Kozam, et al.	08-29-1978
	17	4,265,233			Sugitachi, et al.	05-05-1981
	18	4,298,598			Schwarz, et al.	11-03-1981
	19	4,359,049			Redl, et al.	11-16-1982
	20	4,362,567			Schwarz, et al.	12-07-1982

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office	Number	Kind Code (if known)		
	84	DE	25,913		Zdaril	02-12-1884
	85	CH	259,254		Szent-Györgyi, et al.	06-01-1949
	86	WIPO	WO 86/01814		Trustees Columbia Univ.	03-27-1986
	87	WIPO	WO 88/02259		Weis-Fogh	04-07-1988
	88	WIPO	WO 88/03151		Univ. of Texas System	05-05-1988

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		Number	Kind Code if known				
	21	4,363,319			Altshuler	12-14-1982	
	22	4,374,830			Schneider	02-22-1983	
	23	4,377,572			Schwarz, et al.	03-22-1983	
	24	4,414,976			Schwarz, et al.	11-15-1983	
	25	4,427,650			Stroetmann	01-24-1984	
	26	4,427,651			Stroetmann	01-24-1984	
	27	4,442,655			Stroetmann	04-17-1984	
	28	4,453,939			Zimmerman, et al.	06-12-1984	
	29	4,627,879			Rose, et al.	12-09-1986	
	30	4,631,055			Redl, et al.	12-23-1986	
	31	4,655,211			Sakamoto, et al.	04-07-1987	
	32	4,696,812			Silbering, et al.	09-29-1987	
	33	4,714,457			Alterbaum	12-22-1987	
	34	4,734,261			Koizumi, et al.	03-29-1988	
	35	4,735,616			Eibl, et al.	04-05-1988	
	36	4,752,466			Saferstein, et al.	06-21-1988	
	37	4,767,416			Wolf, et al.	08-30-1988	
	38	4,826,048			Skorka, et al.	05-02-1989	
	39	4,842,581			Davis	06-27-1989	
	40	4,874,368			Miller, et al.	10-17-1989	

FOREIGN PATENT DOCUMENTS

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		Office	Number	Kind Code if known			
	89	SU	1,527,261	A1		12-07-1989	
	90	WIPO	WO 91/09641		Cryolife, Inc.	07-11-1991	
	91	EP	0 443 724	A1	Baxter International, Inc.	08-28-1991	
	92	EP	0 505 604	A1	Warner-Lambert Co.	09-30-1992	
	93	EP	0 534 178	A2	Octapharma AG	03-31-1993	

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1449A PTO Rev. 10-95		U.S. Department of Commerce Patent and Trademark Office		Complete if Known	
LIST OF PRIOR ART CITED BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	
				Filing Date	
				First Named Inventor	Coelho, et al.
				Group Art Unit	
				Examiner Name	
Sheet	4	of	8	Attorney Docket Number	31120-pa

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
	61	5,290,552		Sierra, et al.	03-01-1994	
	62	5,304,372		Michalski, et al.	04-19-1994	
	63	5,328,462		Fischer	07-12-1994	
	64	5,368,563		Lonneman, et al.	11-29-1994	
	65	5,393,666		Linnau	02-28-1995	
	66	5,405,607		Epstein	04-11-1995	
	67	5,411,885		Marx	05-02-1995	
	68	5,443,959		Kikuchi, et al.	08-22-1995	
	69	5,460,945		Springer, et al.	10-24-1995	
	70	5,474,540		Miller, et al.	12-12-1995	
	71	5,474,770		Broly, et al.	12-12-1995	
	72	5,480,378		Weis-Fogh, et al.	01-02-1996	
	73	5,506,127		Proba, et al.	04-09-1996	
	74	5,510,102		Cochrum	04-23-1996	
	75	5,575,779		Barry	11-19-1996	
	76	5,578,459		Gordon, et al.	11-26-1996	
	77	5,585,007		Antanavich, et al.	12-17-1996	
	78	5,605,887		Pines, et al.	02-25-1997	
	79	5,614,204		Cochrum	03-25-1997	
	80	5,631,019		Marx	05-20-1997	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Office		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ¹
		Number	Kind Code (if known)				
	99	WIPO WO 99/45938		Sierra, David H.	09-16-1999		

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Re. 10 95		Patent and Trademark Office			
<p align="center">LIST OF PRIOR ART CITED BY APPLICANT</p> <p align="center"><i>(use as many sheets as necessary)</i></p>				Application Number	
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				First Named Inventor	Coelho, et al.
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Sheet	5	of	8	Attorney Docket Number	31120-pa

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LIST OF PRIOR ART CITED BY APPLICANT (use as many sheets as necessary)								
						Application Number		
						Filing Date		
				First Named Inventor		Coelho, et al.		
Group Art Unit								
Examiner Name								
Sheet	6	of	8	Attorney Docket Number	31120-pa			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date, page(s); volume-issue number(s); publisher; country; where published; source	1
	100	Fenton, J., et al., "Human Thrombins", Chemistry & Biology of Thrombin, pp. 43-70.	
	101	Rosenberg, R.D., et al., "Bovine Thrombin: Constant Specific Activity Products From Single Animals", Fed. Proc., p. 321, Abstract No. 361.	
	102	Quick, A.J., et al., "Production Of Thrombin From Precipitate Obtained By Acidification Of Diluted Plasma", pp. 114-118.	
	103	Eagle, H., "Studies On Blood Coagulation", pp. 531-545, 1934.	
	104	Mann, K.G., et al., "The Molecular Weights Of Bovine Thrombin And Its Primary Autolysis Products", pp. 6555-6557, 1969.	
	105	Mann, K.G., et al., "Multiple Active Forms Of Thrombin", The Journal of Biological Chemistry, Vol. 246(19), pp. 5994-6001, 1971.	
	106	Martin, M., et al., "Thrombolysis In Patients With Chronic Arterial Occlusions", Thrombolytic Therapy, Vol. 47, pp. 235-241, 1971.	
	107	Fenton, J., et al., "Large-Scale Preparation And Preliminary Characterizations Of Human Thrombin", Biochimica et Biophysica Acta. Vol. 229, pp. 26-32, 1971.	
	108	Andrianova, et al., "An Accessible Method Of Simultaneous Production Of Fibrinogen And Thrombin From Blood", pp. 648-650, 1975. (Plus English translation).	
	109	Georgi, M., et al., "Occlusion Of The Renal Artery By Intra-Arterial Injection Of Thrombin In A Case Of Inoperable Renal Tumor", Deutsche Medizinische Wochenschrift, Vol. 100(47), pp. 2428-2429, 1975. (Plus English translation).	
	110	Lundblad, R.L., et al., "Preparation And Partial Characterization Of Two Forms Of Bovine Thrombin", Biochemical and Biophysical Research Communications, Vol. 66(2), pp. 482-489, 1975.	
	111	Sakuragawa, N., et al., "Purification And Some Characterization Of Human Thrombin", Acta Medica et Biologica, Vol. 23(1), pp. 65-73, 1975.	

Examiner		Date	
Signature		Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Group Art Unit								
Examiner Name								
Sheet	7	of	8	Attorney Docket Number 31120-pa				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date, page(s); volume-issue number(s); publisher, country, where published, source	
	112	Fenton, J., et al., "Human Thrombins: Production, Evaluation, And Properties Of α -Thrombin", The Journal of Biological Chemistry, Vol. 252(11), pp. 3587-3598, 1977.	
	113	Nordenman, B., et al., "Purification Of Thrombin By Affinity Chromatography On Immobilized Heparin", Thrombosis Research, Vol. 11, pp. 799-808, 1977.	
	114	Nowotny, R., et al., "Mechanical Properties Of Fibrinogen-Adhesive Material", Biomaterials 1980, Vol. 3, pp. 677-682, 1982.	
	115	Kotelba-Witkowska, B., et al., "Cryopreservation Of Platelet Concentrates Using Glycerol-Glucose", Transfusion, Vol. 22(2), pp. 121-124, 1982.	
	116	Redl, H., et al., "Fibrin Sealant-Antibiotic Mixture -- Stability And Elution Behavior", Fibrinkleber Orthop. Traumatol. Orthop. Symp., Vol. 4, pp. 178-181, 1982. (Plus English translation).	
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	118	Gestring, G., et al., "Autologous Fibrinogen For Tissue-Adhesion, Hemostasis And Embolization", Vascular Surgery, Vol. 17, pp. 294-304, 1983.	
	119	Wolf, G., "The Concentrated Autologous Tissue Glue", Archives of Oto-Rhino-Laryngology, Vol. 237, pp. 279-283, 1983.	
	120	Tsvetkov, T.S., et al., "A Method For Preparation Of Dry Thrombin For Topical Application", Cryobiology, Vol. 21(6), pp. 661-663, 1984.	
	121	Yu, X.J., et al., "Affinity Chromatography Of Thrombin On Modified Polystyrene Resins", Journal of Chromatography, Vol. 376, pp. 429-435, 1986.	
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	123	Harpel, P.C., "Blood Proteolytic Enzyme Inhibitors: Their Role In Modulating Blood Coagulation And Fibrinolytic Enzyme Pathways", pp. 219-234, 1987.	

Examiner		Date	
Signature		Considered	

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Sheet	8 of	8	Attorney Docket Number	31120-pa

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, country, where published, source	1
	124	Fenton, J.W., "Regulation Of Thrombin Generation And Functions", Seminars in Thrombosis and Hemostasis, Vol. 14(3), pp. 234-240, 1988.	
	125	Awano, K., et al., "Role Of Serotonin, Histamine, And Thromboxane A2 In Platelet-Induced Contractions Of Coronary Arteries And Aortae From Rabbits", Journal Of Cardiovascular Pharmacology, Vol. 13(5), pp. 781-792, 1989.	
	126	Mulvihill, J., et al., "Thrombin Stimulated Platelet Accumulation On Protein Coated Glass Capillaries: Role Of Adhesive Platelet a-Granule Proteins", Thrombosis and Haemostasis, Vol. 62(3), pp. 989-995, 1989.	
	127	Suzuki, S., et al., "A Study On The Properties Of Commercial Thrombin Preparations", Thrombosis Research, Vol. 53(3), pp. 271-277, 1989.	
	128	Ronfard, V., et al., "Use of Human Keratinocytes Cultured On Fibrin Glue In The Treatment Of Burn Wounds", Burns, Vol. 17(3), pp. 181-184, 1991.	
	129	Brennan, M., "Fibrin Glue", Blood Reviews, Vol. 5, pp. 240-244, 1991.	
	130	DePalma, L., et al., "The Preparation Of Fibrinogen Concentrate For Use As Fibrin Glue By Four Different Methods", Transfusion, Vol. 33(9), pp. 717-720, 1993.	
	131	McCarthy, P., "Fibrin Glue In Cardiothoracic Surgery", Transfusion Medicine Reviews, Vol. 7(3), pp. 173-179, 1993.	
	132	Cederholm-Williams, S., "Benefits Of Adjuvant Fibrin Glue In Skin Grafting", The Medical Journal of Australia, Vol. 161(9), p. 575, 1994.	
	133	Cederholm-Williams, S., "Autologous Fibrin Sealants Are Not Yet Available", The Lancet, Vol. 344, p. 336, 1994.	
	134	Wiegand, D.A., et al., "Assessment Of Cryoprecipitate-Thrombin Solution for Dural Repair", Head & Neck, pp. 569-573, 1994.	
	135	Szczepanski, et al., "Thrombin Clotting Time and Fibrin Polymerization in Liver Cirrhosis", Materia Medica Polona, Vol. 26, No. 3, pages 87-90, 1994	

Examiner	Date	
Signature	Considered	

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